

CLAIMS

What is claimed is:

- 5 1. A semi-transparent type liquid crystal display panel, comprising:
a transparency substrate;
a TFT array substrate;
a liquid crystal layer between said transparency substrate and
said TFT array substrate;
10 a passivation layer on said TFT array substrate, said passivation
layer having a transmissive portion and a reflection portion, where said
reflection portion is thicker than said transmissive portion;
a reflection layer on said reflection portion of said passivation
layer; and
15 a flat color filter on said reflection layer and said transmissive
portion of said passivation layer;
wherein a first light reflected by said reflection layer and a second
light transmitting through said transmissive portion of said passivation
layer have the same color density.
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2. The liquid crystal display panel according to claim 1, further
comprising a first transparent conductive layer between said flat color
filter and said liquid crystal layer, and a second transparent conductive
layer between said transparency substrate and said liquid crystal
25 layer.
3. The liquid crystal display panel according to claim 2, further
comprising a first alignment layer between said first transparent
conductive layer and said liquid crystal layer, and a second alignment

layer between said second transparent conductive layer and said liquid crystal layer.

4. The liquid crystal display panel according to claim 1, further
5 comprising a first transparent conductive layer between said flat color filter and said TFT array substrate, and a second transparent conductive layer between said transparency substrate and said liquid crystal layer.
- 10 5. The liquid crystal display panel according to claim 4, further comprising a first alignment layer between said flat color filter and said liquid crystal layer, and a second alignment layer between said second transparent conductive layer and said liquid crystal layer.
- 15 6. The liquid crystal display panel according to claim 1, wherein said reflection layer is aluminum, silver, chromium, aluminum alloy, or chromium alloy.
7. The liquid crystal display panel according to claim 1, wherein said
20 flat color filter is a photoresist with pigments.
8. The liquid crystal display panel according to claim 7, wherein said flat color filter is formed by spin coating, spinless coating, transferring, or printing.
- 25 9. The liquid crystal display panel according to claim 1, wherein said flat color filter is thinner on said reflection portion than on said transmissive portion.

10. A method for manufacturing a semi-transparent type liquid crystal panel, comprising:
- forming a passivation layer on a TFT array substrate;
 - 5 forming a reflection layer on a partial section of said passivation layer as a reflection portion;
 - etching a thickness of other section of said passivation layer without being covered by said reflection layer as a transmissive portion;
 - 10 forming a flat color filter on said passivation layer and said reflection layer;
 - forming a first transparent conductive layer and a first alignment layer on said flat color filter in sequence; and
 - fabricating said TFT array substrate and a transparency substrate
 - 15 having a second transparent conductive layer and a second alignment layer, and a liquid crystal layer between said TFT array substrate and said transparency substrate into an LCD panel;
 - wherein, a first light reflected by said reflection portion and a second light transmitting through said transmissive portion of said
 - 20 passivation layer have the same color density.
11. The method according to claim 10, wherein said reflection layer is aluminum, silver, chromium, aluminum alloy, or chromium alloy.
- 25 12. The method according to claim 10, wherein said flat color filter is a photoresist with pigments.
13. The method according to claim 10, wherein said flat color filter is

formed by spin coating, spinless coating, transferring, or printing.

14. The method according to claim 10, wherein said flat color filter is thinner on said reflection portion than on said transmissive portion.

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15. A method for manufacturing a semi-transparent type liquid crystal panel, comprising:

forming a passivation layer on a TFT array substrate;

10 forming a reflection layer on a partial section of said passivation layer;

etching a thickness of other section of said passivation layer without being covered by said reflection layer;

forming a first transparent conductive layer on said passivation layer and said reflection layer;

15 forming a flat color filter on said transparent conductive layer;

forming a first alignment layer formed on said flat color filter; and

20 fabricating said TFT array substrate and a transparency substrate having a second transparent conductive layer and an second alignment layer, and a liquid crystal layer being between said TFT array substrate and said transparency substrate into an LCD panel;

wherein, a first light reflected by said reflection portion and a second light transmitting through said transmissive portion of said passivation layer have the same color density.

25 16. The method according to claim 15, wherein said reflection layer is aluminum, silver, chromium, aluminum alloy, or chromium alloy.

17. The method according to claim 15, wherein said flat color filter is a

photoresist with pigments.

18. The method according to claim 15, wherein said flat color filter is formed by spin coating, spinless coating, transferring, or printing.

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19. The method according to claim 15 wherein said flat color filter is thinner on said reflection portion than on said transmissive portion.